

AMENDMENTS TO THE CLAIMS:

(1) Please amend claims 1, 2 and 50.

(2) Please withdraw claims 3-7, 48, 49 and 51-83 without prejudice or disclaimer of the subject matter thereof.

Claim 1 (Currently amended): A composition for protecting brain cells or improving memory; said composition comprising;
an extract of Liriopsis tuber from about 505.0 to 500 mg; and
at least one pharmaceutically acceptable carrier, said pharmaceutically acceptable carrier is talc from about 0.5 to 5.0 mg, and lactose from about 50 to 500 mg; and

brown rice, job's tear, barley, glutinous rice, perilla japonica, black bean, black sesame, ganoderma lucidum (FR) karst, and rehmannia glutinosa.

Claim 2 (Currently amended): The composition of claim 1, ~~wherein said pharmaceutically acceptable carrier~~ further comprising magnesium steerage from 0.1 to 1.0 mg.

Claim 3 (Withdrawn): The composition of claim 1, wherein the extract of Liriopsis tuber is obtained by extracting with a solvent selected from the group consisting of Cl-4 lower alcohols or a mixture of said lower alcohols and water, acetone, chloroform, methylene chloride, ether and ethyl acetate.

Claim 4 (Withdrawn): The composition of claim 3, wherein the extract of Liriopsis tuber is obtained by dissolving the solvent soluble fraction obtained as described in claim 3 in a mixed solvent of Cl-4 lower alcohol and water, adjusting pH value with an acid to a range of 2-4, and further fractionating via extraction with an equal amount of chloroform.

Claim 5 (Withdrawn): The composition of claim 3, wherein the extract of Liriopsis tuber is obtained by dissolving the solvent soluble fraction obtained as described in claim 3 in a mixed solvent of Cl-4 lower alcohol and water, adjusting pH value with an acid to a range of 2-4, further extracting with an equal amount of chloroform, adjusting pH value of the chloroform insoluble fraction with ammonium hydroxide to a range of 9-12, extracting the chloroform insoluble fraction with an equal amount of chloroform-methanol mixture, further extracting the chloroform-methanol insoluble fraction with

methanol, fractionating, thereby obtaining the extract of *Liriopsis* tuber from the methanol soluble fraction.

Claim 6 (Withdrawn): The composition of claim 3, wherein the extract of *Liriopsis* tuber is obtained by dissolving the solvent soluble fraction obtained as described in claim 3 in a mixed solvent of Cl-4 lower alcohol and water, adjusting pH value with an acid to a range of 2-4, further extracting with an equal amount of chloroform, adjusting pH value of the chloroform insoluble fraction with ammonium hydroxide to a range of 9-12, extracting the chloroform insoluble fraction with an equal amount of chloroform-methanol mixture, further extracting the chloroform-methanol insoluble fraction with methanol, fractionating, thereby obtaining the extract of *Liriopsis* tuber from the methanol insoluble fraction.

Claim 7 (Withdrawn): The composition of claim 1, wherein said composition further comprises an additive selected from the group consisting of natural carbohydrates, flavors, nutrients, vitamins, mineral (electrolytes), synthetic seasonings natural seasonings, coloring agents, fillers, pectic acid and its salt, alginic acid and its salt, organic acids, protective colloidal thickeners, pH regulating agents, stabilizers, preservatives, antioxidants, glycerin, alcohols, carbonizing agents, and sarcocarp.

Claim 8 (Previously presented): The composition of claim 1, wherein the composition is formulated into an administration form selected from the group consisting of an oral administration, topical applications, suppositories, and sterile injections.

Claims 9-47 (Cancelled).

Claim 48 (Withdrawn): The composition of claim 7 further comprising a beverage, and wherein the content of the extract of *Liriopsis* tuber is 1-30 g per 100 ml of said beverage.

Claim 49 (Withdrawn): The composition of claim 7 further comprising a food product, and wherein the content of the extract of *Liriopsis* tuber is 0.1 to 15% by weight based on the total weight of said food product.

Claim 50 (Currently amended): The composition of claim 1, wherein said extract of *Liriopsis* tuber is 3 w/w% by weight based on the total weight of said composition (w/w%), and further comprising said brown rice is 30 w/w%, job's tear is 15 w/w%, barley is 20 w/w%, glutinous rice is 9 w/w%, perilla japonica is 7 w/w%, black bean is 8

w/w%, black sesame is 7 w/w%, ganoderma lucidum (FR) karst is 0.5 w/w%, and rehmannia glutinosa is 0.5 w/w%.

Claim 51 (Withdrawn): The composition of claim 3, wherein said carrier is about 500.0mg of lactose, about 5.0mg of talc, and about 1.0mg of magnesium stearate, and wherein said Liriopsis tuber extract is about 500.0mg.

Claim 52 (Withdrawn): The composition of claim 4, wherein said carrier is about 50.0mg of lactose, about 0.5mg of talc, and about 0.1mg of magnesium stearate, and wherein said Liriopsis tuber extract is about 50.0mg.

Claim 53 (Withdrawn): The composition of claim 5, wherein said carrier is about 50.0mg of lactose, about 0.5mg of talc, and about 0.1mg of magnesium stearate, and wherein said Liriopsis tuber extract is about 50.0mg.

Claim 54 (Withdrawn): The composition of claim 6, wherein said carrier is about 50.0mg of lactose, about 0.5mg of talc, and about 0.1mg of magnesium stearate, and wherein said Liriopsis tuber extract is about 50.0mg.

Claim 55 (Withdrawn): A composition for protecting brain cells or improving memory; said composition comprising;

an extract of Liriopsis tuber from about 50 to 500 mg; and
at least one pharmaceutically acceptable carrier, said pharmaceutically
acceptable carrier is starch from about 1.0 to 10 mg and magnesium
stearate from about 10 to 100 mg.

Claim 56 (Withdrawn): The composition of claim 55, wherein said extract of Liriopsis tuber is obtained by extracting with a solvent selected from the group consisting of Cl-4 lower alcohols or a mixture of said lower alcohols and water, acetone, chloroform, methylene chloride, ether and ethyl acetate, and said carrier is about 10.0mg of starch, and about 100.0mg of magnesium stearate, and wherein said Liriopsis tuber extract is about 500.0mg.

Claim 57 (Withdrawn): The composition of claim 55, wherein said extract of Liriopsis tuber is obtained by dissolving the solvent soluble fraction obtained as described in claim 3 in a mixed solvent of Cl-4 lower alcohol and water, adjusting pH value with an acid to a range of 2-4, and further fractionating via extraction with an equal amount of chloroform, and said carrier is about 1.0mg of starch, and about

10.0mg of magnesium stearate, and wherein said Liriopsis tuber extract is about 50.0mg.

Claim 58 (Withdrawn): The composition of claim 55, wherein said extract of Liriopsis tuber is obtained by dissolving the solvent soluble fraction obtained as described in claim 3 in a mixed solvent of Cl-4 lower alcohol and water, adjusting pH value with an acid to a range of 2-4, further extracting with an equal amount of chloroform, adjusting pH value of the chloroform insoluble fraction with ammonium hydroxide to a range of 9-12, extracting the chloroform insoluble fraction with an equal amount of chloroform-methanol mixture, further extracting the chloroform-methanol insoluble fraction with methanol, fractionating, thereby obtaining the extract of Liriopsis tuber from the methanol soluble fraction, and said carrier is about 1.0mg of starch, and about 10.0mg of magnesium stearate, and wherein said Liriopsis tuber extract is about 50.0mg.

Claim 59 (Withdrawn): The composition of claim 55, wherein said extract of Liriopsis tuber is obtained by dissolving the solvent soluble fraction obtained as described in claim 3 in a mixed solvent of Cl-4 lower alcohol and water, adjusting pH value with an acid to a range of 2-4, further extracting with an equal amount of chloroform, adjusting pH value of the chloroform insoluble fraction with ammonium hydroxide to a range of 9-12, extracting the chloroform insoluble fraction with an equal amount of chloroform-methanol mixture, further extracting the chloroform-methanol insoluble fraction with methanol, fractionating, thereby obtaining the extract of Liriopsis tuber from the methanol insoluble fraction, and said carrier is about 1.0mg of starch, and about 10.0mg of magnesium stearate, and wherein said Liriopsis tuber extract is about 50.0mg.

Claim 60 (Withdrawn): A composition for protecting brain cells or improving memory; said composition comprising;
an extract of Liriopsis tuber from about 5.0 to 50 mg; and
at least one pharmaceutically acceptable carrier, said pharmaceutically acceptable carrier is about 95.1 g of sugar, about 80 mg of Paraoxybenzoate, about 16 mg Paraoxypropylbenzoate, and about 150 ml of purified water.

Claim 61 (Withdrawn): The composition of claim 60, wherein said extract of Liriopsis tuber is obtained by extracting with a solvent selected from the group consisting of Cl-4 lower alcohols or a mixture of said lower alcohols and water, acetone, chloroform, methylene chloride, ether and ethyl acetate, and said Liriopsis tuber extract is about 5.0g.

Claim 62 (Withdrawn): The composition of claim 60, wherein said extract of Liriopsis tuber is obtained by dissolving the solvent soluble fraction obtained as described in claim 3 in a mixed solvent of Cl-4 lower alcohol and water, adjusting pH value with an acid to a range of 2-4, and further fractionating via extraction with an equal amount of chloroform, and said Liriopsis tuber extract is about 50.0mg.

Claim 63 (Withdrawn): The composition of claim 60, wherein said extract of Liriopsis tuber is obtained by dissolving the solvent soluble fraction obtained as described in claim 3 in a mixed solvent of Cl-4 lower alcohol and water, adjusting pH value with an acid to a range of 2-4, further extracting with an equal amount of chloroform, adjusting pH value of the chloroform insoluble fraction with ammonium hydroxide to a range of 9-12, extracting the chloroform insoluble fraction with an equal amount of chloroform-methanol mixture, further extracting the chloroform-methanol insoluble fraction with methanol, fractionating, thereby obtaining the extract of Liriopsis tuber from the methanol soluble fraction, and said Liriopsis tuber extract is about 50.0mg.

Claim 64 (Withdrawn): The composition of claim 60, wherein said extract of Liriopsis tuber is obtained by dissolving the solvent soluble fraction obtained as described in claim 3 in a mixed solvent of Cl-4 lower alcohol and water, adjusting pH value with an acid to a range of 2-4, further extracting with an equal amount of chloroform, adjusting pH value of the chloroform insoluble fraction with ammonium hydroxide to a range of 9-12, extracting the chloroform insoluble fraction with an equal amount of chloroform-methanol mixture, further extracting the chloroform-methanol insoluble fraction with methanol, fractionating, thereby obtaining the extract of Liriopsis tuber from the methanol insoluble fraction, and said Liriopsis tuber extract is about 50.0mg.

Claim 65 (Withdrawn): A composition for protecting brain cells or improving memory; said composition comprising;

an extract of Liriopsis tuber from about 50 to 500 mg; and

at least one pharmaceutically acceptable carrier, said pharmaceutically

acceptable carrier is about 20 g of isomerized sugar, 5.0 mg of

antioxidant, 2.0 mg of methylparaoxybenzoate, and about 100 ml of

purified water

Claim 66 (Withdrawn): The composition of claim 65, wherein said extract of Liriopsis tuber is obtained by extracting with a solvent selected from the group consisting of Cl-4 lower alcohols or a mixture of said lower alcohols and water, acetone, chloroform, methylene chloride, ether and ethyl acetate, and said Liriopsis tuber extract is about 500.0mg.

Claim 67 (Withdrawn): The composition of claim 65, wherein said extract of Liriopsis tuber is obtained by dissolving the solvent soluble fraction obtained as described in claim 3 in a mixed solvent of Cl-4 lower alcohol and water, adjusting pH value with an acid to a range of 2-4, and further fractionating via extraction with an equal amount of chloroform, and said Liriopsis tuber extract is about 500.0mg.

Claim 68 (Withdrawn): The composition of claim 65, wherein said extract of Liriopsis tuber is obtained by dissolving the solvent soluble fraction obtained as described in claim 3 in a mixed solvent of Cl-4 lower alcohol and water, adjusting pH value with an acid to a range of 2-4, further extracting with an equal amount of chloroform, adjusting pH value of the chloroform insoluble fraction with ammonium hydroxide to a range of 9-12, extracting the chloroform insoluble fraction with an equal amount of chloroform-methanol mixture, further extracting the chloroform-methanol insoluble fraction with methanol, fractionating, thereby obtaining the extract of Liriopsis tuber from the methanol soluble fraction, and said Liriopsis tuber extract is about 500.0mg.

Claim 69 (Withdrawn): The composition of claim 65, wherein said extract of Liriopsis tuber is obtained by dissolving the solvent soluble fraction obtained as described in claim 3 in a mixed solvent of Cl-4 lower alcohol and water, adjusting pH value with an acid to a range of 2-4, further extracting with an equal amount of

chloroform, adjusting pH value of the chloroform insoluble fraction with ammonium hydroxide to a range of 9-12, extracting the chloroform insoluble fraction with an equal amount of chloroform-methanol mixture, further extracting the chloroform-methanol insoluble fraction with methanol, fractionating, thereby obtaining the extract of *Liriopsis* tuber from the methanol insoluble fraction, and said *Liriopsis* tuber extract is about 500.0mg.

Claim 70 (Withdrawn): A composition for protecting brain cells or improving memory; said composition comprising;

an extract of *Liriopsis* tuber from about 5.0 to 50 mg; and

at least one pharmaceutically acceptable carrier, said pharmaceutically

acceptable carrier is about 1.0 mg of antioxidant, 1.0 mg of Tween 80, and 2.0 ml of distilled water.

Claim 71 (Withdrawn): The composition of claim 70, wherein said extract of *Liriopsis* tuber is obtained by extracting with a solvent selected from the group consisting of Cl-4 lower alcohols or a mixture of said lower alcohols and water, acetone, chloroform, methylene chloride, ether and ethyl acetate, and said *Liriopsis* tuber extract is about 50.0mg.

Claim 72 (Withdrawn): The composition of claim 70, wherein said extract of *Liriopsis* tuber is obtained by dissolving the solvent soluble fraction obtained as described in claim 3 in a mixed solvent of Cl-4 lower alcohol and water, adjusting pH value with an acid to a range of 2-4, and further fractionating via extraction with an equal amount of chloroform, and said *Liriopsis* tuber extract is about 50.0mg.

Claim 73 (Withdrawn): The composition of claim 70, wherein said extract of *Liriopsis* tuber is obtained by dissolving the solvent soluble fraction obtained as described in claim 3 in a mixed solvent of Cl-4 lower alcohol and water, adjusting pH value with an acid to a range of 2-4, further extracting with an equal amount of chloroform, adjusting pH value of the chloroform insoluble fraction with ammonium hydroxide to a range of 9-12, extracting the chloroform insoluble fraction with an equal amount of chloroform-methanol mixture, further extracting the chloroform-methanol insoluble fraction with methanol, fractionating, thereby obtaining the extract of *Liriopsis*

tuber from the methanol soluble fraction, and said *Liriopsis* tuber extract is about 50.0mg.

Claim 74 (Withdrawn): The composition of claim 70, wherein said extract of *Liriopsis* tuber is obtained by dissolving the solvent soluble fraction obtained as described in claim 3 in a mixed solvent of Cl-4 lower alcohol and water, adjusting pH value with an acid to a range of 2-4, further extracting with an equal amount of chloroform, adjusting pH value of the chloroform insoluble fraction with ammonium hydroxide to a range of 9-12, extracting the chloroform insoluble fraction with an equal amount of chloroform-methanol mixture, further extracting the chloroform-methanol insoluble fraction with methanol, fractionating, thereby obtaining the extract of *Liriopsis* tuber from the methanol insoluble fraction, and said *Liriopsis* tuber extract is about 50.0mg.

Claim 75 (Withdrawn): A method for protecting brain cells against damage caused by excitatory amino acids and oxidative stress in a mammal comprising administering to said mammal a therapeutic amount of an extract of *Liriopsis* tuber of claim 3, wherein said extract of *Liriopsis* tuber is administered in an amount of from 0.1mg/kg to 500mg/kg, and wherein said extract is administered to said mammal via a route selected from the group consisting of oral administration, topical application, sterile injection, inhalation, beverage, food product, and rectal administration.

Claim 76 (Withdrawn): A method for inhibiting AMPA-induced depolarization of a neuronal cell of a mammal comprising administering to said mammal a therapeutic amount of an extract of *Liriopsis* tuber of claim 3, wherein said extract of *Liriopsis* tuber is administered in an amount of from 0.1mg/kg to 500mg/kg and wherein said extract is administered to said mammal via a route selected from the group consisting of oral administration, topical application, sterile injection, inhalation, beverage, food product, and rectal administration.

Claim 77 (Withdrawn): A method of facilitating tyrosine phosphorylation of a hippocampal protein of a mammal comprising administering to said mammal a therapeutic amount of an extract of *Liriopsis* tuber of claim 3, wherein said extract of *Liriopsis* tuber is administered in an amount of from 0.1mg/kg to 500mg/kg and wherein said extract is administered to said mammal via a route selected from the group

consisting of oral administration, topical application, sterile injection, inhalation, beverage, food product, and rectal administration.

Claim 78 (Withdrawn): The method of claim 77, wherein said hippocampal protein comprises an insulin receptor.

Claim 79 (Withdrawn): The method as of claim 77, wherein said hippocampal protein comprises ERKs (extracellular-signal regulated kinases).

Claim 80 (Withdrawn): A method of inhibiting cholinesterase activity in the brain of a mammal comprising administering to said mammal a therapeutic amount of an extract of Liriopsis tuber of claim 3, wherein said extract of Liriopsis tuber is administered in an amount of from 0.1mg/kg to 500mg/kg and wherein said extract is administered to said mammal via a route selected from the group consisting of oral administration, topical application, sterile injection, inhalation, beverage, food product, and rectal administration.

Claim 81 (Withdrawn): A method of treating neurodegenerative diseases of a mammal comprising administering a medicament to said mammal, wherein said medicament prepared with an extract of Liriopsis tuber of claim 3.

Claim 82 (Withdrawn): A method of preventing or treating dementia of a mammal comprising administering a medicament to said mammal, wherein said medicament prepared with an extract of Liriopsis tuber of claim 3.

Claim 83 (Withdrawn): A method of improving memory of a mammal comprising administering a medicament to said mammal, wherein said medicament prepared with an extract of Liriopsis tuber of claim 3.